



TOM TINDALL
Director

County of Los Angeles INTERNAL SERVICES DEPARTMENT

1100 North Eastern Avenue
Los Angeles, California 90063

Telephone: (323) 267-2101
FAX: (323) 264-7135

"To enrich lives through effective and caring service"

March 1, 2011

To: Each Supervisor

From: Tom Tindall *Tom Tindall*
Director

Subject: **ANNUAL CLEAN FUELS REPORT**

The Board of Supervisor's "Clean Fuels" policy was adopted on January 10, 1995. The policy requires that by March 1 of each year, departments report on the composition of their fleet and their progress toward acquiring clean fuel vehicles.

Attachment I is the Internal Services Department's (ISD's) report for calendar year 2010, which includes data on all of the County departments and vehicles for which ISD provides automotive services. County departments that maintain their own vehicles (Sheriff, Public Works, and Fire) will report separately. Please note that ISD's report no longer includes the 251 former Office of Public Safety (OPS) vehicles, which were transferred to the Sheriff's Department as approved by your Board on December 15, 2009.

The ISD-maintained motor vehicle fleet includes 3,738 vehicles, of which 583 (16%) are alternative fuel vehicles (AFVs). Passenger vehicles in the ISD-maintained fleet total 1,272, of which 406 (32%) are AFVs.

Attachment I indicates that County departments have purchased a variety of AFVs, including hybrid, electric, natural gas, bi-fuel, flex-fuel and propane. Also reflected is information captured to date on certified low emission vehicles (LEV's) and ultra-low emission vehicles (ULEV's) as defined by the California Air Resources Board (CARB).

Hybrid Vehicles

ISD continues to educate and assist County departments regarding the acquisition of hybrid and AFVs in support of the County's Clean Fuels policy. The following actions were taken during this reporting period:

- County departments purchased 29 additional hybrid sedans in calendar year 2010.
- The Vehicle Purchasing Services Program continues in effect. This program, approved by your Board in February 2008, provides employee incentives to lessen the environmental impact of work commuting, and allows County employees to purchase or lease alternative fuel vehicles. We now have eleven (11) participating automotive dealerships. County employees used this program to purchase 48 hybrid vehicles during 2010, bringing the total number of hybrid vehicles purchased by County employees under this program to 308.

The following estimates the impact of the Board amendment to the Clean Fuels Policy to make the hybrid-electric vehicle (or other alternative fueled or electric vehicles) the standard for County operations effective July 2006. The data is cumulative through December 31, 2010.

Items Avoided	Results from Hybrids	Results from CNG and LPG*	Combined Results
Gallons of Petroleum Fuel Avoided	334,000	918,000	1,252,000
Pounds of CO2 Avoided	6,479,000	16,022,000	22,501,000

*CNG – Compressed Natural Gas; LPG- Liquid Propane Gas

Plug-In Hybrid Electric Vehicles (PHEV)

ISD arranged for a four week demonstration test period from October 22 to November 18, 2010 of the pre-production Toyota Prius PHEV. Market release for this vehicle is expected in autumn 2011. The demonstration vehicle provided an opportunity to examine the manufacturer changes incorporated into this version of the Prius PHEV, as compared to ISD's test conversion PHEV units. The most notable difference was the engineering of systems to provide the anticipated increase in fuel efficiency and miles per gallon (MPG) for both city and highway driving. This included all electric mode ability up to 19 miles and up to 90 MPG fuel efficiency. A cost-benefit analysis will be completed once PHEV vehicles become more fully available in the market.

Regulations for Diesel Vehicles/Equipment

The County operates approximately 700 diesel vehicles impacted by the CARB Public Fleet rule (January 5, 2007, regulations). County departments that operate vehicles impacted by the regulations include Public Works, Fire, Sheriff, Health Services, Parks & Recreation, Beaches & Harbors, Probation, Registrar-Recorder, Agricultural Commissioner, Coroner, Public Social Services, Museum of Natural History, Public Library, and ISD.

ISD continues to work with County departments regarding affected ISD-maintained fleet vehicles. Affected vehicles are on schedule to meet all compliance requirements consistent with the CARB implementation schedule for compliance by calendar year ending 2011. All but one vehicle was compliant for calendar year ending 2010. The remaining vehicle is scheduled to complete the diesel particulate trap retrofit during first quarter of 2011. Each responsible department continues to assess operational requirement for the diesel vehicles/equipment, hybrid and alternate fuel options and their budget to either replace, retrofit, or document low usage of vehicles.

Alternate Fuel Vehicle Initiatives

In support of California greenhouse gas emission reduction target of 80 percent below 1990 levels by 2050, ISD continues to explore AFVs, pilot new technologies, educate County departments, and recommend/amend the Clean Fuels Program Policy or Vehicle Policy as necessary. Initiatives in 2010 included:

- ISD continued to work with the Chief Executive Office as active workgroup member in finalizing the draft County Vehicle Policy, which is planned to be implemented in 2011. This policy provides County-wide standards and a model for departments to utilize in creating department-specific policies for managing County vehicles.
- ISD is a founding partner of the Southern California Regional Plug-In Electric Vehicle Plan (SoCal EV) group formed in early 2010 as a regional collaborative among local and regional government agencies, utilities, and universities in Southern California. Group members are actively engaged in supporting and building the necessary infrastructure for the wider commercial availability of electric vehicles. A 2010 California Energy Commission (CEC) grant application included 23 partners across six counties (from Santa Barbara to Orange) to jointly apply for a \$3.2 million grant. In January 2011, the CEC announced a partial award of \$840,750 to the group. However, Los Angeles County's share has not yet been determined.

- ISD continued to work with County departments to identify potential sites for alternate fuel site infrastructure, including gaseous fuels and electric chargers. On-going planning will continue to be required as AFVs and electric vehicles evolve. For example, Parks and Recreation will be the beneficiary of an Odyne gas-electric hybrid aerial basket truck for which the South Coast Air Quality Management District (SCAQMD) approved grant funding on February 4, 2011.
- ISD arranged for short-term demonstration use and testing of a Ford "all-Propane" E350 van in County operations. The propane-fueled van was tested in County Mail Services operations. Mail Services staff reported excellent vehicle performance and no impact to operations. The demonstration indicates potential fuel cost savings and the need for greater propane fueling infrastructure.
- ISD has placed orders for the Nissan Leaf and Chevrolet Volt to test in County operations.

ISD Fuel Facilities - Regulation Compliance

ISD operates three fuel facilities, which support daily fueling for all County vehicles and County emergency preparedness. Fuel facilities are regulated by the CARB, the California Water Board, and the SCAQMD to ensure fuel sites meet equipment standards and control emissions.

ISD fuel facilities are in full compliance with all regulations including CARB's Enhanced Vapor Recovery (EVR) Phase I (fuel storage) and II (refueling vehicles), which was required for all gasoline dispensing facilities by April 1, 2009. An exemption is on file for the Mall Garage until April 1, 2012, because the equipment required has not yet been approved for fuel facilities which utilize liquid condensate traps. The Mall Garage is the only County facility with this equipment due to underground level fuel dispensing.

Additionally, ISD management and staff continue to work with County departments and other government agencies on environmental vehicle initiatives, County fuel systems and infrastructure, and other projects to gain more applied knowledge on greening our fleet.

Each Supervisor
March 1, 2011
Page 5

If you have any questions, please contact me at 323-267-2101, or your staff may contact Joe Sandoval, General Manager, Purchasing and Contract Services at (323) 267-2109.

TT:JS:MN:lc

Attachment

c: ISD Board Deputies
Department Heads
Administrative Deputies
Vehicle Coordinators

Report by Fuel Type

Attachment I

Count of FUEL TYPE	ALTERNATE FUEL VEHICLES (AFV)									Grand Total	TOTAL AFV	Emission Certifications*	AFV as % of TOTAL
	FUEL TYPE												
DEPARTMENT	GAS	DIESEL	CNG/GAS	CNG	ETHANO L/GAS	HYBRID ELECTRIC/GAS	METHANOL/ GAS	PROPANE	PROPANE/ GAS				
AGRICULTURAL COMMISSIONER	309	13			3	2				327	5	151	1.53%
ALTERNATE PUBLIC DEFENDER	3					1				4	1	2	25.00%
ANIMAL CARE AND CONTROL	66			1	12	5				84	18	62	21.43%
ASSESSOR	6					1				7	1	4	14.29%
AUDITOR-CONTROLLER	2					2				4	2	2	50.00%
BEACHES & HARBOR	102	7				2				111	2	37	1.80%
BOARD OF SUPERVISORS	42					36				78	36	53	46.15%
CHIEF ADMIN OFFICER/PER	8					4				12	4	13	33.33%
CHIEF INFORMATION OFFICER						1				1	1	1	100.00%
CHILD SUPPORT SERVICES	8									8	-	5	0.00%
COMMUNITY & SENIOR SVC	38				5	5				48	10	49	20.83%
COMMUNITY DEV COMM	5									5	-	3	0.00%
DEPARTMENT OF CORONER	33	3			15	1				52	16	27	30.77%
DEPT CHILD./FAMILY SERVICES	75				4					79	4	27	5.06%
DEPT OF HEALTH SERVICES	285	52	1	32	7	5	1			383	46	134	12.01%
DEPT OF PUBLIC HEALTH	78	1		1	2	26				108	29		26.85%
DEPT PUBLIC SOCIAL SERVICES	18					2				20	2	10	10.00%
DISTRICT ATTORNEY	254			1	46	5				306	52	205	16.99%
EMERGENCY PREPAREDNESS	4	1								5	-	2	0.00%
HUMAN RESOURCES DEPT	1									1	-	1	0.00%
INTERNAL SERVICES DEPT	577	10	1	11	77	28	2		1	707	120		16.97%
MENTAL HEALTH SERVICES	146				5	77				228	82	123	35.96%
MILITARY/VETERAN AFFAIRS	1									1	-	1	0.00%
MUSEUM OF NATURAL HISTORY	16	2								18	-	2	0.00%
PARKS AND RECREATION	551	16	3	1	5	19		2		597	30	304	5.03%
PROBATION	300	3			49	56				408	105	275	25.74%
PUBLIC DEFENDER	6									6	-	3	0.00%
PUBLIC LIBRARY	53	3	1	2	2	1				62	6	28	9.68%
REGIONAL PLANNING	1					3				4	3	2	75.00%
REGISTRAR-RECORDER	45	3				7				55	7	33	12.73%
TREASURER AND TAX COLLECTOR	8					1				9	1	3	11.11%
Grand Total	3,041	114	6	49	232	290	3	2	1	3,738	583	1,562	15.60%

PERCENT OF FLEET 81.35% 3.05% 0.16% 1.31% 6.21% 7.76% 0.08% 0.05% 0.03%

*Vehicles certified to meet or exceed the Low Emission Vehicle standard as established by the California Air Resources Board